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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/078,713	02/19/2002	Yoshiyuki Namizuka	RCOH-1045	5363
	590 04/24/200 HIDA & DUNLEAV	EXAMINER		
EIGHT PENN CENTER SUITE 1350, 1628 JOHN F KENNEDY BLVD PHILADELPHIA, PA 19103			ROSARIO, DENNIS	
			ART UNIT	PAPER NUMBER
			2624	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/078,713				
			NAMIZUKA, YOSHIYUKI			
	,	Examiner .	Art Unit			
	The MAILING DATE of this communication app	Dennis Rosario ears on the cover sheet with the co	2624 correspondence address			
Period fo			,			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status			•			
1)⊠	Responsive to communication(s) filed on <u>09 M</u>	<u>arch 2007</u> .				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-5,7-13,15-19,21-27,29-40 and 42-44</u> 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>1-5,7-13,15-19,21-27,29-40 and 42-44</u> Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration. Z is/are rejected.	1.			
Applicat	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>18 August 2006</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a) accepted or b) ⊠ objected drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority (ınder 35 U.S.C. § 119					
12)⊠ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Associate	A/a)					
2) Notice 3) Information	ct(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date 12/29/06.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

Response to Amendment

1. The amendment was received on 3/9/07. Claims 1-5,7-13,15-19,21-27,29-40 and 42-47 are pending.

Drawings

2. The drawings of 8/18/06 are objected to because they contain informalities as indicated in the office action of 4/24/06.

Response to Arguments

3. Applicant's arguments filed 3/9/07 have been fully considered but they are not persuasive and states:

"The above portions of the Ueta et al. reference is irrelevant to the patentable feature of the current invention as explicitly recited in newly amended independent claims."

The examiner respectfully disagrees as discussed in the 102 rejection below.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-5,7-13,15-19,21-27,29-40 and 42-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Ueta et al. (US Patent 5,748,800).

Regarding claim 15, Ueta et al. discloses a system of processing image data, comprising:

- a) an operation unit (fig. 1,numerals 48 and 49) for inputting a user input value ("user inputs" in col. 3, line 65);
- b) an image data input unit (fig. 1, num. 43) for inputting image data (fig. 1, num. 43: CCD LINE SENSOR captures an image based upon "user indicat[ion]" or customization in col. 10, lines 34 and 35.);
- c) a space filter process unit (fig. 1,num. 47) connected (via numerals 59,44,45) to said image data input unit (fig. 1, num. 43) for:
- c1) determining (fig. 3, num. 77: COMPAR. is a comparator.) whether or not a portion (Fig. 2.num. 43 is a portion of an image.) of the image data (fig. 1, num. 43: CCD LINE SENSOR) is an outline portion (edge portion) to generate an outline characteristic (Output of fig. 3, num. 77:COMPAR. generates edge data.) of the outline portion in the image data; and

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d) an intensity correction unit or pre-correction unit (fig. 1,num. 45:CCD SIGANL PROCESSOR performs a shading correction in col. 3, lines 35 and 36.) connected (via num. 47) to said operation unit (fig. 1,numerals 48 and 49) and said space filter process unit (fig. 1,num. 47 as shown in fig. 1) for:

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- d1) selecting a correction coefficient (fig. 3,num. 79 is a switch that selects a coefficient from fig. 3,num. 81: CONT. COEF. INPUT UNIT.) from a set of predetermined correction coefficients (fig. 3, num. 49: CONT. COEF. INPUT UNIT contains "a preset... coefficient" in col. 4, lines 2-4.) based upon:
- d11) <u>a combination of</u> the outline characteristic (Output of fig. 3, num. 77:COMPAR. generates edge data that is used by fig. 3, num. 79.) <u>and</u>
 d12) the user input value (as shown in figures 1 and 3, numerals

48 and 49; and

e) applying the selected correction coefficient (fig. 3,num. 79 is a switch that selects a coefficient from fig. 3,num. 49: CONT. COEF. INPUT UNIT which is applied via num. 82.) to the portion (Fig. 2.num. 43 is a portion of an image.) of the image data (fig. 1, num. 43: CCD LINE SENSOR).

Claim 1 is rejected the same as claim 15. Thus, argument similar to that presented above for claim 15 is equally applicable to claim 1, except that claim 1 is directed towards a method.

Regarding claim 2, Ueta et al. discloses the method of processing image data according to claim 1 wherein the image data is scanned (fig. 1, num. 43: CCD LINE

SENSOR captures an image based upon "user indicat[ion]" or customization in col. 10, lines 34 and 35.).

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Claim 3 is rejected the same as claim 11. Thus, argument similar to that presented above for claim 11 is equally applicable to claim 3.

Regarding claim 4, Ueta et al. discloses the method of processing image data according to claim 1 wherein said correction coefficients (fig. 3,num. 79 is a switch that selects a coefficient from fig. 3,num. 49: CONT. COEF. INPUT UNIT.) include intensity correction coefficients (Fig. 3,num. 49: CONT. COEF. INPUT UNIT contains coefficients for contrast or sharpness that is based on a "shading correction" in col. 3, lines 35 and 36. Thus the contrast coefficients contain a shading value or intensity.).

Claims 5,18 and 19 are rejected the same as claim 4. Thus, argument similar to that presented above for claim 4 is equally applicable to claims 5,18 and 19.

Regarding claim 7, Ueta et al. discloses the method of processing image data according to claim 6 wherein said user input values (Fig. 3,num. 48: COMP COEF. INPUT UNIT obtains a user input coefficient in col. 3, lines 65-67.) include an intensity notch signal (Fig. 3,num. 48: COMP COEF. INPUT UNIT is a "multi-position switch" in col. 4, lines 1 and 2.).

Regarding claim 8, Ueta et al. discloses the method of processing image data according to claim 6 wherein said user input values (Fig. 3,num. 48: COMP COEF. INPUT UNIT obtains a user input coefficient in col. 3, lines 65-67.) include an image type signal (Fig. 3, label "IMAGE SIGNAL").

Regarding claim 9, Ueta et al. discloses the method of processing image data according to claim 6 wherein said user input values (Fig. 3,num. 48: COMP COEF. INPUT UNIT obtains a user input coefficient in col. 3, lines 65-67.) include customize data (An image based upon "user indicat[ion]" or customization in col. 10, lines 34 and 35.).

Regarding claim 10, Ueta et al. discloses the method of processing image according to claim 6 wherein said user input values (Fig. 3,num. 48: COMP COEF. INPUT UNIT obtains a user input coefficient in col. 3, lines 65-67.) include a background removal signal (Fig. 3,num. 49: CONT. COEF. INPUT UNIT receives an user input for correcting contrast or "suppressing contrast... noise" in the abstract.).

Regarding claim 11, Ueta et al. discloses the method of processing image data according to claim 1 further comprising additional steps of:

a) further determining an image intensity level (Fig. 1, num. 45: CCD SIGNAL PROCESSOR performs a shading correction in col. 3, lines 34-36.) of the portion (Fig. 2.num. 43 is a portion of an image to be corrected by fig. 1,num. 45: CCD SIGNAL PROCESSOR.) of the image data (fig. 1, num. 43: CCD LINE SENSOR) prior (as shown in fig. 1.) to said applying step (fig. 3,num. 79 is a switch that selects a coefficient from fig. 3,num. 49: CONT. COEF. INPUT UNIT which is applied via num. 82 and corresponds to fig. 1,num. 46.); and

b) selecting said correction coefficient (fig. 3,num. 79 is a switch that selects a coefficient from fig. 3,num. 49: CONT. COEF. INPUT UNIT.) from said set of said predetermined correction coefficients (fig. 3, num. 49: CONT. COEF. INPUT UNIT) based upon said outline characteristic (Output of fig. 3, num. 77:COMPAR. generates edge data.) and said image intensity level (Fig. 1, num. 45: CCD SIGNAL PROCESSOR performs a shading correction in col. 3, lines 34-36 and is inputted into fig. 1,num. 46.).

Regarding claim 12, Ueta et al. discloses the method of processing image data according to claim 11 wherein said predetermined correction coefficients (fig. 3, num. 49: CONT. COEF. INPUT UNIT contains "a preset...coefficient" in col. 4, lines 2-4.) are previously stored in a table (Fig. 1,num. 55: ROM contains "parameters...[that] set the... coefficient..." in col. 10, lines 27-30. Thus, fig. 1,num. 55: ROM generates a preset coefficient based on parameters.).

Regarding claim 13, Ueta et al. does not teach the limitation of claim 13, but does suggest a scanning direction to obtain an edge as shown in fig. 2 and suggests other methods of obtaining an edge using "relative adjacent elements in a spatial arrangement...(col. 11, lines 3-5)." Thus, a spatial arrangement can contain a direction between two elements.

Claim 16 is rejected the same as claim 2. Thus, argument similar to that presented above for claim 2 is equally applicable to claim 16.

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Regarding claim 17, Ueta et al. discloses the system for processing image data according to claim 16 further comprising a precorrection unit (Fig. 1,num. 45: CCS SIGANL PROCESSOR performs a shading correction in col. 3, lines 34-36) connected to said scanner (fig. 1, num. 43: CCD LINE SENSOR), and said space filter process unit (fig. 1,num. 46 is an "edge contrast unit" in col. 3, line 41.) for correcting the scanned image data (fig. 1, num. 43: CCD LINE SENSOR captures an image) to generate preprocessed image data (Output of fig. 1,num. 45) prior to outputting the preprocessed image data to said space filter process unit (fig. 1,num. 46).

Claims 21 and 22 are rejected the same as claim 7. Thus, argument similar to that presented above for claim 7 is equally applicable to claims 21 and 22.

Claim 23 is rejected the same as claim 9. Thus, argument similar to that presented above for claim 9 is equally applicable to claim 23.

Claim 24 is rejected the same as claim 10. Thus, argument similar to that presented above for claim 10 is equally applicable to claim 24.

Regarding claim 25, Ueta et al. of the combination teaches the system for processing image data according to claim 15 wherein

- a) said space filter process unit (fig. 1,num. 46 is an "edge contrast unit" in col. 3, line 41.) further determines an image intensity level (fig. 1,num. 46 shown in detail in fig. 3 determines an image intensity level at fig. 3,num. 47 based upon a shaded corrected signal from fig. 1,num. 45.) of the portion (Fig. 2.num. 43 is a portion of an image.) of the image data (fig. 1, num. 43: CCD LINE SENSOR) prior (as shown in fig. 1.) to applying (fig. 3,num. 79 is a switch that selects a coefficient from fig. 3,num. 49: CONT. COEF. INPUT UNIT which is applied via num. 82 and corresponds to fig. 1,num. 46.) the selected correction coefficient (fig. 3,num. 79 is a switch that selects a coefficient from fig. 3,num. 49: CONT. COEF. INPUT UNIT which is applied via num. 82.); and
 - b) The remaining limitation was rejected in claim 11.

Regarding claim 26, Ueta et al. of the combination teaches the system for processing image data according to claim 25 further comprises a storage unit (fig. 3,num. 81: CONT COEF. OUTPUT UNIT stores coefficients.) connected (via numerals 79,77,76,74,75 and 71-73) to said intensity correction unit (Fig. 1,num. 45.) for storing the predetermined correction coefficients in a table format (fig. 3, num. 49: CONT. COEF. INPUT UNIT contains "a preset... coefficient" in col. 4, lines 2-4 that are inputted to storage 81.).

Claim 27 is rejected the same as claim 13. Thus, argument similar to that presented above for claim 13 is equally applicable to claim 27.

Claim 29 has been addressed in claims 1 and 15 except for the limitation of a storage medium for storing computer readable instructions which are disclosed in Ueta et al. in col. 3, line 60: "programs stored in RAM".).

Claim 30 is rejected the same as claim 2. Thus, argument similar to that presented above for claim 2 is equally applicable to claim 30.

Claim 31 is rejected the same as claim 3. Thus, argument similar to that presented above for claim 3 is equally applicable to claim 31.

Claims 32 and 33 are rejected the same as claim 4. Thus, argument similar to that presented above for claim 4 is equally applicable to claim 32 and 33.

Claim 34 is rejected the same as claim 7. Thus, argument similar to that presented above for claim 7 is equally applicable to claim 34.

Claim 35 is rejected the same as claim 8. Thus, argument similar to that presented above for claim 8 is equally applicable to claim 35.

Claim 36 is rejected the same as claim 9. Thus, argument similar to that presented above for claim 9 is equally applicable to claim 36.

Claim 37 are rejected the same as claim 10. Thus, argument similar to that presented above for claim 10 is equally applicable to claim 37.

Claim 38 is rejected the same as claim 11. Thus, argument similar to that presented above for claim 11 is equally applicable to claim 38.

Claim 39 is rejected the same as claim 12. Thus, argument similar to that presented above for claim 12 is equally applicable to claim 39.

Claim 40 is rejected the same as claim 13. Thus, argument similar to that

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presented above for claim 13 is equally applicable to claim 40.

Claims 42-44 are rejected the same as claims 12 and 25. Thus, argument similar to that presented above for claims 12 and 25 are equally applicable to claims 42-44.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 45-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ueta et al. (US Patent 5,748,800 A) in view of Kawamura et al. (US Patent 6,563,537 B1).

Regarding claim 45, Ueta et al. does not teach the limitation of an outline characteristic includes a right edge, a left edge, a horizontal edge and a vertical edge, but does suggest a scanning direction to obtain an edge as shown in fig. 2 and suggests other methods of obtaining an edge using "relative adjacent elements in a spatial arrangement... (col. 11, lines 3-5)." Thus, Ueta suggest a spatial arrangement can contain a direction between two elements.

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Kawamura et al. teaches the spatial arrangement as suggested by Ueta et al. as shown in fig. 1, label PN2h that shows two horizontal edges with a space between and the remaining limitation of an outline characteristic (or "block pattern" in col. 7, line 29 as shown in fig. 1, labels PN1h,PN1v,PN0,PN2h and PN2v) that includes a vertical edge (fig. 1, labels PN1v and PN2v),a horizontal edge (fig. 1, PN1h,PN2h), right and left edges (correspond to fig. 1, labels PN1h and PN2h which are horizontal edges that contain an "upper left pixel" in col. 8, lines 41 and col. 9, line 1 or "upper right" in col. 9, line 2 which are interpreted as upper left edge pixel or upper right edge pixel since the upper left pixel or the upper right pixel corresponds to a portion of said horizontal edge.).

It would have been obvious at the time the invention was made to one of ordinary skill in the art to modify Ueta et al.'s teaching of a scanning direction and relative adjacent elements with Kawamura et al.'s teaching of determining an edge with direction, because Kawamura et al.'s teaching "properly interpolate[es] image signals having various patterns (Kawamura et al., col. 2, lines 65-67)."

Claims 46 and 47 are rejected the same as claim 45. Thus, argument similar to that presented above for claim 45 is equally applicable to claims 46 and 47.

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Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Suzuki et al. (US Patent 5,850,293) is pertinent as teaching a method of using a "Edge emphasis coefficient controller" shown in fig. 19A, num. 1611 with a user input as shown in fig. 19A, num. SH₂₋₀.

Aoyama et al. (US Patent 6,535,651 B1) is pertinent as teaching a method of using a SHARPNESS INSTRUCTION INPUT MEANS 51 with EDGE PRESENCE OR ABSENCE JUDGING MEANS 31 and CORRECTION MEANS 44' as shown in fig. 12.

Leszcynski (US Patent 4,833,627) is pertinent as teaching a method of using user input "adjustment factor" in col. 5, line 67 to correct edges or contours.

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis Rosario whose telephone number is (571) 272-7397. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (571) 272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dennis Rosario Unit 2624

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" Marker (Bella